

# Aditya Anand Kulkarni

Shegaon, Maharashtra | adityakulkarniwhat@gmail.com | +91 82086 54995

linkedin.com/in/adityakulkarni2004 | github.com/mostly-toast | kaggle.com/adityak12

## About Me

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Aspiring computer science engineer with a strong foundation in Python, Machine Learning, and Flutter. Passionate about developing innovative solutions and enhancing user experiences through technology.

## Education

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**Shri Sant Gajanan Maharaj College of Engineering**, BE in Computer Science and Engineering Nov 2022 – Present

- GPA: 7.58/10.0

## Technologies & Skills

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**Languages:** Python, Java, SQL, Dart.

**ML & Data Science:** Pandas, NumPy, Scikit-learn.

**Data Engineering & Automation:** Web Scraping (Playwright), ETL Pipelines, SQLite, Automated Scripting.

**Developer Tools:** Git, Linux, Jupyter Notebooks.

## Projects

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### Intelligent Job Pipeline (LinkedIn Agent) (In Progress)

- Developing an autonomous ETL pipeline utilizing Playwright for resilient, logged-in scraping of complex LinkedIn job data (incl. applicant counts); integrating SQLite to ensure data integrity and prevent duplicates.
- Designing a custom "Priority Score" algorithm to rank jobs by post recency and applicant volume, with the goal of delivering a prioritized intelligence report daily via a cron-scheduled smtp lib agent.

### End-to-End Price Prediction Model (Used Cars)

- Engineered a high-accuracy prediction model, improving the  $R^2$  score from a 1.2% baseline to 90.4% through rigorous data preprocessing and feature engineering.
- Executed a full ML workflow: performed EDA and data cleaning on messy, text-based data, then trained, compared, and ensembled Random Forest, XGBoost, and CatBoost into a final Stacking Regressor.

### Loco-Info (Ministry of Railways, Central Railway)

- Developed Loco-Info, a comprehensive management system to streamline railway shed operations by tracking locomotive maintenance, staff allocation, and scheduling.
- Engineered a centralized database that improved data accessibility and accuracy, digitizing and replacing manual record-keeping processes.

## Experience

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### Electric Loco Shed, Bhusawal. Ministry of Railway, Central Railway (App Developer Intern)

- Contributed to the development of loco-info, a railway shed management system, by designing and implementing key features for locomotive maintenance scheduling.
- Leveraged a real-time database for live data synchronization and built the front-end UI with Flutter, significantly improving data accuracy and operational efficiency.

## Achievements and Certifications

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**Vihang Website** (Website here) Developed a user-friendly website for the college's drone club using HTML, CSS, JS, and Bootstrap, hosted on the college portal. Applied for copyright to secure our personal contribution.

**Courses - Python, Introduction to Machine Learning, Pandas:** Source - Kaggle

## Extra-Curricular Activities

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**ISTE, SSGMCE (Secretary):** Coordinated chapter activities, managed communications, and oversaw workshops and seminars to ensure participant engagement.

**Pursuit, SSGMCE (Tech Team Member):** Led promotional efforts through posters and videos, increasing event awareness by 20% and collaborating with teams to boost attendance by 10%.